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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,901	01/11/2008	Thomas Scherer	WUE-57	5039	
26875 WOOD, HERRON & EVANS, LLP 2700 CAREW TOWER			EXAMINER		
			TAPOLCAI, WILLIAM E		
441 VINE STI CINCINNATI			ART UNIT	PAPER NUMBER	
ch teh ti ti ti	, 011 10202		3744		
			MAIL DATE	DELIVERY MODE	
			10/20/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. 10/584,901 SCHERER ET AL.

Applicant(s)

Office Action Summary							
Office Action Cummary	Examiner	Art Unit					
	William E. Tapolcai	3744					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence ac	idress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.15 If NO period for reply is agreeful at above, the maximum statutory period to the provision of 37 CFR 1.15 If NO period for reply with the set or extended period for reply with 19 Lead. Any reply received by the Office later than three months after the mailing aemed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).					
Status							
Responsive to communication(s) filed on							
2a) This action is FINAL. 2b) ☐ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 22-42 is/are pending in the application	n.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed.							
6)⊠ Claim(s) 22-42 is/are rejected.							
7) Claim(s) is/are objected to.							
	8) Claim(s) are subject to restriction and/or election requirement.						
	·						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on 28 June 2006 is/are: a)	I⊠ accepted or b) objected to	by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
 Certified copies of the priority documents have been received. 							
 Certified copies of the priority documents have been received in Application No 							
 Copies of the certified copies of the prior 	•	ed in this National	Stage				
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(RTO 412)					
Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate					
3) X Information Disclosure Statement(s) (FTO/SE/08)	5) Notice of Informal F	atent Application					

Attachment(s)		
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Patent Disclosure Statement(e) (PTO/SE/08) Paper No(s)Mail Date 20060628	4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application 6) Other:	

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 Regarding claims 35 and 38, the phrase "preferably" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 3. Claims 22, 24, 25, 27, 29, 30, 34-36, 38, and 39 are rejected under 35
 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,513,500 to Fischer et al.

 Fischer et al discloses the claimed invention of a cooling system for an aircraft including a refrigerating installation 4, a refrigeration consumer 8A and 8B, a refrigeration transport system 5-7, 10-12 connecting the refrigerating installation and the refrigeration consumer. The recitation in claim 34 of the refrigeration machines being controlled in a decentralized manner by an automatic and time-dependent activation is considered to be a mere functional recitation that is not supported by positively recited structure or a means-plus-function clause. The recitation in claim 36 of the refrigerating agent flowing through both a switched-on and a switched-off refrigeration machine is also considered to be a mere functional statement and not a positively recited structure or a means-plus-function clause.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. Claims 23, 26, 31-33, 37, 40, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer et al. Fischer et al discloses the claimed invention except for the number of refrigerating machines, the type of refrigerating machine used, the type of sensed refrigerating parameters used, the operation of the refrigerating machines, the hot gas bypass valve, the shut-off valve, and the operation of the pump 7. All of these claimed limitations are considered to be matters of obvious choice to one of ordinary skill in the art. They are all considered to be well known provisions of an ordinary refrigeration system.
- 6. Claims 28 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fischer et al in view of U.S. Patent No. 3,216,215 to Schuett. Fischer et al discloses the claimed invention except for the refrigerant store and the amount of refrigerant being altered. Schuett teaches a refrigeration system comprising a store 12a for the secondary coolant. Schuett further teaches a valve for varying the amount of refrigerant flowing through the spaces to be cooled. Thus, it would be obvious to modify Fischer et al so that the refrigeration system comprises a store for the secondary coolant, and also alters the amount of coolant flowing through the spaces to be cooled, in view of Schuett, to yield the predictable result of providing the necessary amount of coolant needed to perform the cooling functions required.
- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (571) 272-4814. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William E. Tapolcai/ Primary Examiner, Art Unit 3744

wet October 7, 2008